

AMENDMENTS OF THE DRAWINGS

The attached Replacement Sheet 4 of the drawings includes changes to FIG. 4. This sheet, which includes only FIG. 4, replaces the original Sheet 4 including only FIG. 4. In replacement FIG. 4, (1) the arrow from decision block 76 to block 78 has been labeled --YES--, and (2) the arrow from decision block 76 to block 79 has been labeled --NO--.

The attached Replacement Sheet 6 of the drawings includes changes to FIG. 6. This sheet, which includes only FIG. 6, replaces the original Sheet 6 including only FIG. 6. In replacement FIG. 6, the third reference point on the ω axis has been labeled -- $3\pi/4$ --.

For the reasons explained below, please approve the addition of the enclosed sheet of drawings containing FIG. 7, so that corrected formal drawings may be filed. A separate Letter to Official Draftsperson is being filed concurrently herewith.

Attachments:

Replacement Sheets for FIGS. 4 and 6
Annotated Sheets Showing Changes to FIGS. 4 and 6
New Drawing Sheet for FIG. 7

REMARKS

Summary of Office Action

Claims 1-32 were pending in the above-identified patent application. Of those, claims 10-16 and 26-32 were withdrawn as being directed to a non-elected invention.

The drawings were objected to under 37 C.F.R. § 1.83(a) as not showing every feature of the invention specified in claims 17-25.

Claims 7 and 23 were rejected under 35 U.S.C. § 101 as being directed to non-statutory subject matter. Claims 8-9 and 24-25 were rejected as being dependent on a claim having non-statutory subject matter.

Claims 6-7 and 22-23 were rejected under 35 U.S.C. § 112, ¶ 2 as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 8-9 and 24-25 were rejected as being dependent on an indefinite antecedent claim.

Claims 1-5 and 17-21 are allowed.

Reconsideration of this application in light of the following remarks is hereby respectfully requested.

Summary of Applicant's Reply

Applicant has amended FIGS. 4 and 6 to correct typographical errors.

Applicant has proposed the addition of new drawing FIG. 7 (with appropriate amendments of the

specification) in order to more particularly describe and define the invention.

Applicant has amended claims 6, 7, 9, 22, 23, and 25 to overcome the Examiner's rejections. Applicant has cancelled claims 8 and 24 without prejudice.

No new matter has been added and the amendments are fully supported by the originally-filed drawings, specification, and claims. The Examiner's objections and rejections are respectfully traversed.

In the Drawings

FIGS. 4 and 6

Applicant has amended FIG. 4 to correct the "Yes" and "No" labels corresponding to the arrows from decision block 76. Support for this amendment may be found in the specification at page 13, lines 14-25.

Applicant has also amended FIG. 6 to correct a minor typographical error.

No new matter has been added by the amendments of FIGS. 4 and 6.

Reply to the Drawing Objections

The drawings were objected to under 37 C.F.R. § 1.83(a) as not showing every feature of the invention specified in claims 17-25. These objections are respectfully traversed.

Applicant has proposed adding a new drawing FIG. 7 to illustrate an apparatus for detecting and suppressing ringing artifacts. The apparatus includes a

processor 700 configured to perform the steps in FIGS. 4 and 5. No new matter has been added by the addition of new FIG. 7. Support for new FIG. 7 may be found, for example, in FIGS. 4 and 5, the specification at page 13, line 8 to page 15, line 2, and in originally-filed claims 17-25.

Applicant respectfully submits that the drawings, as proposed, fully comply with 37 C.F.R. § 1.83(a). Accordingly, the Examiner's objections to the drawings under 37 C.F.R. § 1.83(a) should be withdrawn.

In the Specification

Applicant has amended the specification at pp. 8 and 15 to include a reference to, and a description of, new FIG. 7. Support for this amendment may be found, for example, in FIGS. 4 and 5, the specification at page 13, line 8 to page 15, line 2, and in originally-filed claims 17-25. Applicant respectfully requests that if for any reason FIG. 7 is not entered, then the amendments of the specification referring to FIG. 7 also not be entered.

Applicant has also amended the specification to include a reference to block 79 as shown in FIG. 4.

No new matter has been added by these amendments of the specification.

Claims 1-5 and 17-21

Applicant notes with appreciation the allowance of claims 1-5 and 17-21.

Claims 6 and 22

Claims 6 and 22 were rejected under 35 U.S.C. § 112, ¶ 2 as being indefinite. In particular, the Examiner contended that claims 6 and 22 should recite "said ringing artifacts" instead of "said ringing." Accordingly, applicant has amended claims 6 and 22 to recite "said ringing artifacts."

For at least the foregoing reason, independent claims 6 and 22 are definite. Accordingly, the Examiner's rejections under 35 U.S.C. § 112 should be withdrawn.

Claims 7, 9, 23, and 25

Claims 7 and 23 were rejected under 35 U.S.C. § 101 as being directed to a pure mathematical algorithm constituting non-statutory subject matter. Claims 7 and 23 were also rejected under 35 U.S.C. § 112, ¶ 2 as being indefinite because "[t]here is nothing in the claim [] suppresses ringing artifact [nor] any indication that it's during the digital resizing" (Office Action, p. 3, ¶ 4). Claims 8-9 and 24-25 were rejected as being dependent on claims having non-statutory subject matter and being indefinite.

Accordingly, applicant has amended claims 7 and 23 to incorporate the features of cancelled claims 8 and 24, respectively, and has also amended claims 9 and 25 to properly depend on independent claims 7 and 23, respectively. In particular, applicant has amended claims 7 and 23 to more particularly define that the method and apparatus suppress ringing artifacts using the

first and second gradients. No new matter has been added.

For at least the foregoing reason, independent claims 7 and 23 are now directed to statutory subject matter and are definite. Claims 9 and 25, which depend from independent claims 7 and 23, respectively, are also directed to statutory subject matter and are definite. Accordingly, the Examiner's rejections under 35 U.S.C. §§ 101 and 112 should be withdrawn.

Conclusion

Applicant respectfully submits that this application, including claims 1-7, 9, 17-23, and 25, is now in condition for allowance. Accordingly, prompt consideration and allowance of this application are respectfully requested.

Respectfully Submitted,

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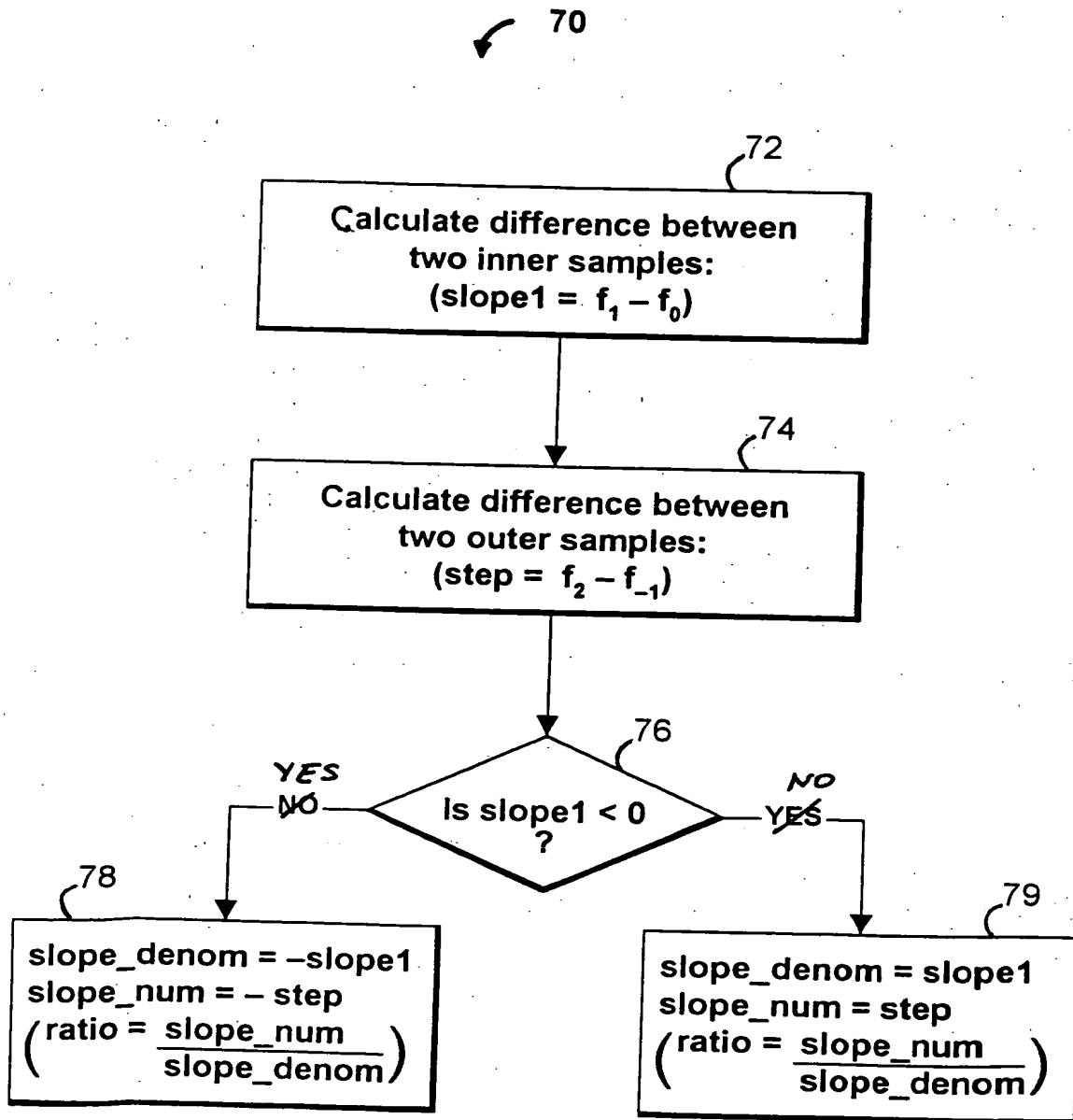


FIG. 4



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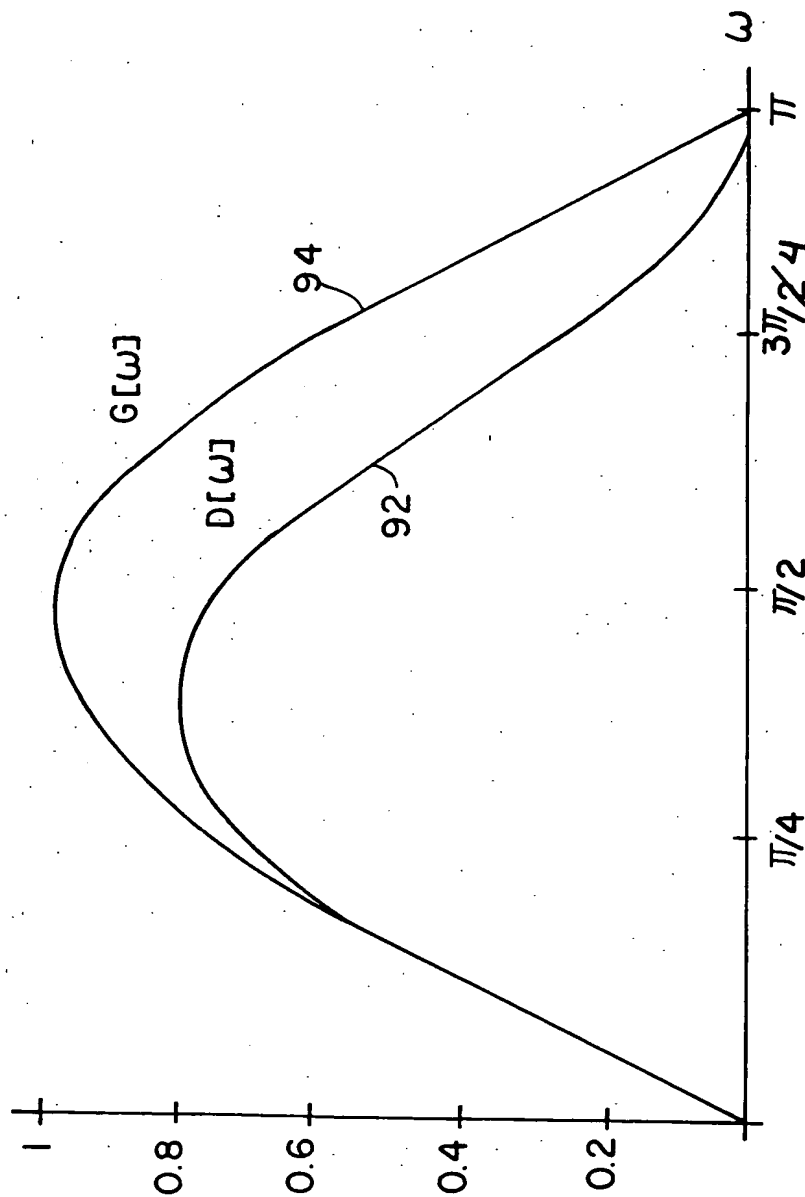


FIG. 6